RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/591, 159
Source:	TFWP
Date Processed by STIC:	09/12/2006
	1 /

ENTERED



IFWP

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PATENT APPLICATION: US/10/591,159
                                                             TIME: 11:29:32
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                     Output Set: N:\CRF4\09122006\J591159.raw
      3 <110> APPLICANT: Covalys Biosciences AG
      5 <120> TITLE OF INVENTION: Mutants of O6-Alkylguanine-DNA Alkyltransferase
      7 <130> FILE REFERENCE: P318A
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/591,159
C--> 9 <141> CURRENT FILING DATE: 2006-08-30
      9 <150> PRIOR APPLICATION NUMBER: EP04405123.3
                                                                  (Pg/6)
     10 <151> PRIOR FILING DATE: 2004-03-02
     12 <150> PRIOR APPLICATION NUMBER: EP04405465.8
     13 <151> PRIOR FILING DATE: 2004-07-22
     15 <160> NUMBER OF SEQ ID NOS: 48
     17 <170> SOFTWARE: PatentIn version 3.3
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     20 <211> LENGTH: 624
     21 <212> TYPE: DNA
     22 <213> ORGANISM: Homo sapiens
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     29 gctgatgccg tggaggtccc agcccccgct gcggttctcg gaggtccgga gcccctgatg
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     31 cagtgcacag cctggctgaa tgcctatttc caccagcccg aggctatcga agagttcccc
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     35 aagctgctga aggttgtgaa attcggagaa gtgatttctt accagcaatt agcagccctg
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     37 gcaggcaacc ccaaagccgc gcgagcagtg ggaggagcaa tgagaggcaa tcctgtcccc
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     39 atcctcatcc cgtgccacag agtggtctgc agcagcggag ccgtgggcaa ctactccgga
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     41 ggactggccg tgaaggaatg gcttctggcc catgaaggcc accggttggg gaagccaggc
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     43 ttgggaggga geteaggtet ggeaggggee tggeteaagg gagegggage taceteggge
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     58 <220> FEATURE:
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69 <212> TYPE: DNA

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Input Set : A:\2006-1322A - Sequence Listing.txt

Output Set: N:\CRF4\09122006\J591159.raw

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142 <213> ORGANISM: Artificial Sequence

PATENT APPLICATION: US/10/591,159 TIME: 11:29:32 Input Set : A:\2006-1322A - Sequence Listing.txt Output Set: N:\CRF4\09122006\J591159.raw 144 <220> FEATURE: 145 <223> OTHER INFORMATION: Sense primer for mutating Cys 62 to Ala 147 <400> SEQUENCE: 9 148 gageceetga tgeaggetae ageetggetg aatge 35 151 <210> SEQ ID NO: 10 152 <211> LENGTH: 35 153 <212> TYPE: DNA 154 <213> ORGANISM: Artificial Sequence 156 <220> FEATURE: 157 <223> OTHER INFORMATION: Antisense primer for mutating Cys 62 to Ala 159 <400> SEQUENCE: 10 160 gcattcagcc aggctgtagc ctgcatcagg ggctc 35 163 <210> SEQ ID NO: 11 164 <211> LENGTH: 60 165 <212> TYPE: DNA 166 <213> ORGANISM: Artificial Sequence 168 <220> FEATURE: 169 <223> OTHER INFORMATION: Sense primer for cloning of AGT mutants into phage-display vector 171 <400> SEQUENCE: 11 172 ctactcgcgg cccagccggc catggcggac tacaaagaca tggacaagga ttgtgaaatg 60 175 <210> SEQ ID NO: 12 176 <211> LENGTH: 40 177 <212> TYPE: DNA 178 <213> ORGANISM: Artificial Sequence 180 <220> FEATURE: 181 <223> OTHER INFORMATION: Antisense primer for cloning of AGT mutants into phagedisplay 182 vector 184 <400> SEQUENCE: 12 185 ggaattcggc ccccgaggcc gcgtttcggc cagcaggcgg 40 188 <210> SEQ ID NO: 13 189 <211> LENGTH: 42 190 <212> TYPE: DNA 191 <213> ORGANISM: Artificial Sequence 193 <220> FEATURE: 194 <223> OTHER INFORMATION: Antisense primer for cloning AGT truncated after 182 into pGEX 196 <400> SEQUENCE: 13 197 gcctttgaat teegtetttg tagteteeca ageetggett ee 42 200 <210> SEQ ID NO: 14 201 <211> LENGTH: 50 202 <212> TYPE: DNA 203 <213> ORGANISM: Artificial Sequence 205 <220> FEATURE: 206 <223> OTHER INFORMATION: Sense primer for randomisation of codons 131-135 209 <220> FEATURE: 210 <221> NAME/KEY: misc_feature 211 <222> LOCATION: (22)..(23) 212 <223> OTHER INFORMATION: n is a, c, g, or t 214 <220> FEATURE: 215 <221> NAME/KEY: misc feature

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TIME: 11:29:32

Input Set : A:\2006-1322A - Sequence Listing.txt Output Set: N:\CRF4\09122006\J591159.raw 216 <222> LOCATION: (25)..(26) 217 <223> OTHER INFORMATION: n is a, c, q, or t 219 <220> FEATURE: 220 <221> NAME/KEY: misc_feature 221 <222> LOCATION: (31)..(32) 222 <223> OTHER INFORMATION: n is a, c, g, or t 224 <220> FEATURE: 225 <221> NAME/KEY: misc feature 226 <222> LOCATION: (34)..(35) 227 <223> OTHER INFORMATION: n is a, c, g, or t 229 <400> SEQUENCE: 14 W--> 230 cccaaagccg cgcgagcagt gnnknnkgca nnknnkggca atcctgtccc 50 233 <210> SEQ ID NO: 15 234 <211> LENGTH: 26 235 <212> TYPE: DNA 236 <213> ORGANISM: Artificial Sequence 238 <220> FEATURE: 239 <223> OTHER INFORMATION: Antisense primer for randomisation of codons 131-135 241 <400> SEQUENCE: 15 242 tgctcgcgcg gctttggggt tgcctg 26 245 <210> SEQ ID NO: 16 246 <211> LENGTH: 41 247 <212> TYPE: DNA 248 <213> ORGANISM: Artificial Sequence 250 <220> FEATURE: 251 <223> OTHER INFORMATION: Sense primer for randomisation of codons 115-116 254 <220> FEATURE: 255 <221> NAME/KEY: misc_feature 256 <222> LOCATION: (19)..(20) 257 <223> OTHER INFORMATION: n is a, c, g, or t 259 <220> FEATURE: 260 <221> NAME/KEY: misc_feature 261 <222> LOCATION: (22)..(23) 262 <223> OTHER INFORMATION: n is a, c, g, or t 264 <400> SEQUENCE: 16 W--> 265 ggagaagtga tttcttacnn bnnbttagca gccctggcag g 41 268 <210> SEQ ID NO: 17 269 <211> LENGTH: 27 270 <212> TYPE: DNA 271 <213> ORGANISM: Artificial Sequence 273 <220> FEATURE: 274 <223> OTHER INFORMATION: Antisense primer for randomisation of codons 115-116 276 <400> SEOUENCE: 17 277 gtaagaaatc acttctccga atttcac 27 280 <210> SEQ ID NO: 18 281 <211> LENGTH: 41 282 <212> TYPE: DNA 283 <213> ORGANISM: Artificial Sequence 285 <220> FEATURE:

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PATENT APPLICATION: US/10/591,159

TIME: 11:29:32

Input Set : A:\2006-1322A - Sequence Listing.txt Output Set: N:\CRF4\09122006\J591159.raw 286 <223> OTHER INFORMATION: Sense primer for randomisation of codons 150-152 289 <220> FEATURE: 290 <221> NAME/KEY: misc feature 291 <222> LOCATION: (19)..(20) 292 <223> OTHER INFORMATION: n is a, c, q, or t 294 <220> FEATURE: 295 <221> NAME/KEY: misc feature 296 <222> LOCATION: (22)..(23) 297 <223> OTHER INFORMATION: n is a, c, g, or t 299 <220> FEATURE: 300 <221> NAME/KEY: misc feature 301 <222> LOCATION: (25)..(26) 302 <223> OTHER INFORMATION: n is a, c, g, or t 304 <400> SEQUENCE: 18 W--> 305 ccgtgccaca gagtggtcnn bnnbnnbgga gccgtgggcg g 41 308 <210> SEQ ID NO: 19 309 <211> LENGTH: 18 310 <212> TYPE: DNA 311 <213> ORGANISM: Artificial Sequence 313 <220> FEATURE: 314 <223> OTHER INFORMATION: Antisense primer for randomisation of codons 150-152 316 <400> SEQUENCE: 19 317 gaccactctg tggcacgg 18 320 <210> SEO ID NO: 20 321 <211> LENGTH: 35 322 <212> TYPE: DNA 323 <213> ORGANISM: Artificial Sequence 325 <220> FEATURE: 326 <223> OTHER INFORMATION: Sense primer for mutating G131K, G132T, M134L, R135S 328 <400> SEQUENCE: 20 329 gcagccacgg cagcagtgaa gacggcactg agtgg 35 332 <210> SEO ID NO: 21 333 <211> LENGTH: 40 334 <212> TYPE: DNA 335 <213> ORGANISM: Artificial Sequence 337 <220> FEATURE: 338 <223> OTHER INFORMATION: Antisense primer for mutating G131K, G132T, M134L, R135S 340 <400> SEQUENCE: 21 341 ggatagggac aggattgcca ctcagtgccg tcttcactgc 40 344 <210> SEQ ID NO: 22 345 <211> LENGTH: 41 346 <212> TYPE: DNA 347 <213> ORGANISM: Artificial Sequence 349 <220> FEATURE: 350 <223> OTHER INFORMATION: Sense primer for mutating Q115S, Q116H 352 <400> SEQUENCE: 22 353 gtgaaattcg gagaagtgat ttcttactct cacttagcag c 41 356 <210> SEQ ID NO: 23 357 <211> LENGTH: 35

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PATENT APPLICATION: US/10/591,159

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Input Set : A:\2006-1322A - Sequence Listing.txt

Output Set: N:\CRF4\09122006\J591159.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:14; N Pos. 22,23,25,26,31,32,34,35
Seq#:16; N Pos. 19,20,22,23
Seq#:18; N Pos. 19,20,22,23,25,26
Seq#:41; N Pos. 1
Seq#:45; N Pos. 18,19,21,22,24,25,27,28,30,31
Seq#:46; N Pos. 18,19,21,22,24,25,27,28,30,31
Seq#:47; N Pos. 17,18,20,21,23,24,26,27,29,30
Seq#:48; N Pos. 19,20,22,23,25,26,28,29,31,32

VERIFICATION SUMMARY DATE: 09/12/2006 PATENT APPLICATION: US/10/591,159 TIME: 11:29:34

Input Set : A:\2006-1322A - Sequence Listing.txt

Output Set: N:\CRF4\09122006\J591159.raw

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